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PATENT ASSIGNMENT

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NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Satoshi MURAKAMI	05/28/2013
Masaki YAMADA	05/28/2013
Ryota KONDO	05/28/2013
Takashi KANEYAMA	05/29/2013
Kazutoshi AWANE	05/30/2013

RECEIVING PARTY DATA

Name:	Mitsubishi Electric Corporation	
Street Address:	7-3, Marunouchi 2-chome, Chiyoda-ku	
City:	Tokyo	
State/Country:	JAPAN	
Postal Code:	100-8310	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13980911

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	417907US20PCT	
NAME OF SUBMITTER:	MITTER: Shewaye Getasetegne/	
Signature:	/Shewaye Getasetegne/	

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OP \$40,00 13980911

Date:	07/22/2013
Total Attachments: 2 source=417907USassignment#page1.tif source=417907USassignment#page2.tif	

PATENT REEL: 030845 FRAME: 0702

Assignment of Application

INSERT NAMES
AND RESIDENCE
ADDRESS OF
THE IN VENTORS

WHEREAS, I (WE) Satoshi MURAKAMI	
Masaki YAMADA	
Ryota KONDO	
Takashi KANEYAMA	
and Kazutoshi AWANE	
of 7-3, Marunouchi 2-Chome, Chiyoda-Ku, TOKYO 100-8310 JAPAN	
	, respectively,
have invented certain new and useful improvements in: <u>DC-DC CONVERTER</u>	
(Application No. PCT/JP2011/077017 , filed on November 24, 2011), and
WHEREAS, Mitsubishi Electric Corporation	

INSERT NAME AND ADDRESS OF COMPANY OR OTHER ASSIGNED

INSERT TITLE OF

(hereinafter referred to as "ASSIGNEE") having a place of business at: 7-3, Marunouchi 2-Chome, Chiyoda-Ku, TOKYO 100-8310 JAPAN is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of Oblon, Spívak, McClelland, Maier & Neustadt, P.C. of 1940 Duke Street, Alexandria, Virginia 22314 the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date:	May 28. 2013	Satoshi Mujakani
·		(Signature of Inventor) Satoshi MURAKAMI
Date:	May 28, 2013	Masaki Yamada
		(Signature of Inventor) Masaki YAMADA
Date:	May 28. 2013	Ryota Kondo
	•	(Signature of Inventor) Ryota KONDO
Date:	May 29, 2013	Takashi Kaneyama
	•	(Signature of Inventor) Takashi KANEYAMA
Date:	May 30. 2013	Kazutoshi Awahe
		(Signature of Inventor) Kazutoshi AWANE
Date:	Hay	
		(Signature of Inventor)

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C. ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

12/04